

Subject	Date	Size (kB)	Exemption Status
Copy of PA Wastewater Analysis Results - Additional Data_2013.09.20 biddle email 10-21-13	10/21/2013	1150	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
CWT 308 letters	3/11/2016	77	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
CWT Facility Memo April 09 2015 Priffs email 4-9-2015	4/9/2015	127	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
Draft Technical Engineering Input for Judsonia and Patriot 308 Letters	9/25/2015	295	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
FW Follow up call re PA POTW data we've been emailing about	31-Jan-17	78.5	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
FW Follow up call re PA POTW data we've been emailing about	1/31/2017	132	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
FW High suspended solids UOG drilling wastewater	12-Jul-17	128	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
FW Request for input on Definition of Unconventional Oil and Gas	8/31/2016	1.2	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
FW State Pretreatment Coordinators' conference call on August 14 at 2 PM Eastern	14-Sep-17	487	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
FW UOG ELG	3/8/2016	114	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
FW UOG TDD Support Memo - POTWs analysis - for review	2/5/2015	2.4	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
FW UOG Workgroup - Warren OH POTW info request	6/19/2014	92	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
FW WA 2-38 CWT Memo	12-Jul-17	1580	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
FYI - spoke to Chris I about CWT sampling a little today	12-Jul-17	72.5	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
FYI - UOG TDD Support Memo - POTWs analysis	2/5/2015	2.6	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
PA well definitions	1/14/2015	4.4	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
Pennsylvania_Regs_Text Boxes AKM Ridley email 8-24-16	8/24/2016	40	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
RE 2-38 UOG CWT Memo	3/27/2015	76	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
RE 308 letter	3/10/2016	69.5	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
RE 308 letters	6/27/2016	83.5	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
RE CWT 308 letters	3/14/2016	123	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
Re CWT 308 LettersQuestionnaires	3/10/2016	4250	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
RE Looking for data on radioactivity levels in frack flowback water	12-Jul-17	32.6	Deliberative Process; Attorney Client; Withhold; Ex. 5 - Civil Privileges
RE NGO letter re UOG wastewater	9/15/2016	1230	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
RE Potential CWT Site Visits Near Pittsburgh	12-Jul-17	126	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
RE Pretreatment call - UOG pretreatment standard (& notes on regions for tomorrow's call)	12-Jul-17	141	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
RE Question about the Warren OH Pilot Study - from their summary in the ORD Wastewater Treatment Tech Workshop	1/7/2014	78	Deliberative Process; Withhold; Ex. 5 - Civil Privileges

RE Request for input on Definition of Unconventional Oil and Gas	11/24/2015	12	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
Re SGE - sampling next steps	12-Jul-17	111	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
RE UOG ELG	3/8/2016	8.5	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
RE UOG pretreatment questions - understanding burden on POTWs and pretreatment authorities	12-Jul-17	171	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
RE UOG Stuff	12-Jul-17	126	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
RE UOG WA 0-38 CWI data to support econ research at Abt	12-Jul-17	230	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
RE Warren PA STP	2/9/2016	2.5	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
RE Warren PA STP II	2/9/2016	3	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
Reg 3 ambient Br and TTHM MCL exceedences October briefing email 1-8-15	1/8/2015	1770	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
UOG ELG	3/1/2016	6.5	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
UOG ELG FAR - TDD observations	3/1/2016	3	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
UOG List of meetings post proposal	12-Jul-17	295	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
UOG Response Letter to US Legislators0920draft Matuszko email 9-20-16	9/20/2016	38.4	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
UOG WA 1-38 Notes from ORD HF study meeting on Wastewater	12-Jul-17	127	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
WA 1-38 Drilling Fluid Follow-up Draft Emails	12-Jul-17	146	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
WA 2-38 POTW Memo	12-Jul-17	582	Deliberative Process; Withhold; Ex. 5 - Civil Privileges
Subject	Date	Size	Review
Ruling on Director's Motion and Appellants' Motion	3/22/2012	11,881	Ex. 5 -- Attorney Work-Product Privilege
Fw: Ruling on Director's Motion and Appellants' Motion (Patriot)	6/15/2012	557,566	Ex. 5 -- Attorney Work-Product Privilege
Fw: Please advise - Fw: New Attorney Request-City of Warren (Other Counsel)	7/27/2012	5,876	Ex. 5 -- Attorney Work-Product Privilege
New Attorney Assignment	7/30/2012	1,785	Ex. 5 -- Attorney Work-Product Privilege
Fw: Please advise - Fw: New Attorney Request-City of Warren (Other Counsel)	7/30/2012	5,869	Ex. 5 -- Attorney Work-Product Privilege
Fw: Ruling on Director's Motion and Appellants' Motion	8/20/2012	557,646	Ex. 5 -- Attorney Work-Product Privilege
Re: Patriot/Warren - Frac water	11/15/2012	4,098	Ex. 5 -- Attorney Work-Product Privilege
Re: Fw: R5 strategy for oil and gas	1/7/2011	21,134	Ex. 5 -- Deliberative Process Privilege
Fw: R5 strategy for oil and gas	2/24/2011	272,202	Ex. 5 -- Deliberative Process Privilege
Re: Fw: Re: Fw: Oil and Gas Hauled Waste Concerns	2/28/2011	17,125	Ex. 5 -- Deliberative Process Privilege
Energy Ext. - Warren POTW	3/25/2011	1,940	Ex. 5 -- Deliberative Process Privilege
AUTO: Jenny Davison is out of the office, returning Monday, April 4, 2011 (returning Mon 04/04/2011)	4/11/2011	1,489	Ex. 5 -- Deliberative Process Privilege
Re: Warren WWTP Info	5/10/2011	4,786	Ex. 5 -- Deliberative Process Privilege
Re: Article on OEPA pulling permits for fracking fluids at Warren WWTP	5/17/2011	5,559	Ex. 5 -- Deliberative Process Privilege
Fw: Declined: QAPP	5/25/2011	12,485	Ex. 5 -- Deliberative Process Privilege
Energy Extraction Update Meeting	7/5/2011	4,104	Ex. 5 -- Deliberative Process Privilege

Rescheduled: Energy Extraction Update Meeting (Jul 13 02:00 PM CDT in R1516 Fox River Room/R5 Metcalfe - 15th Floor@EPA)	7/6/2011	3,311	Ex. 5 -- Deliberative Process Privilege
Energy Extraction Update	7/13/2011	4,474	Ex. 5 -- Deliberative Process Privilege
warren and patriot	7/18/2011	1,779	Ex. 5 -- Deliberative Process Privilege
R5 WWTP/CWT Inspection	7/18/2011	2,171	Ex. 5 -- Deliberative Process Privilege
Re: R5 WWTP/CWT Inspection	7/18/2011	6,549	Ex. 5 -- Deliberative Process Privilege
Rescheduled: Energy Extraction Update (Jul 22 09:00 AM CDT in Dean's office)	7/19/2011	3,444	Ex. 5 -- Deliberative Process Privilege
Rescheduled: Energy Extraction Update (Aug 2 03:30 PM CDT in Dean's office)	7/21/2011	3,449	Ex. 5 -- Deliberative Process Privilege
Invitation: Inspections for City of Warren POTW & Patriot CWT (Jul 25 10:00 AM CDT in R1517 St Croix River Room/R5 Metcalfe - 15th Floor@EPA)	7/22/2011	3,355	Ex. 5 -- Deliberative Process Privilege
Fw: Inspections for City of Warren POTW & Patriot CWT	7/22/2011	18,243	Ex. 5 -- Deliberative Process Privilege
Fw: Inspections for City of Warren POTW & Patriot CWT	7/25/2011	242,411	Ex. 5 -- Deliberative Process Privilege
RE: Inspections for City of Warren POTW & Patriot CWT	7/26/2011	9,439	Ex. 5 -- Deliberative Process Privilege
Fw: Travel Funding for Warren Trip	7/26/2011	4,539	Ex. 5 -- Deliberative Process Privilege
Re: Travel Funding for Warren Trip	7/27/2011	4,958	Ex. 5 -- Deliberative Process Privilege
Re: CWT 308 Examples Request	8/1/2011	6,094	Ex. 5 -- Deliberative Process Privilege
Warren Call in number for 1:30pm CST/2:30pm EST call today	8/11/2011	6,585	Ex. 5 -- Deliberative Process Privilege
Re: warren call?	8/11/2011	6,590	Ex. 5 -- Deliberative Process Privilege
Re: warren call?-please respond ASAP	8/11/2011	6,650	Ex. 5 -- Deliberative Process Privilege
Re: Gas Well Sites - Patriot/Warren Project	8/15/2011	4,197	Ex. 5 -- Deliberative Process Privilege
Re: Request for Radiological Analyses - Warren WWTP and Patriot Water Treatment	8/18/2011	6,249	Ex. 5 -- Deliberative Process Privilege
Re: Addition to Request for Radiological Analyses - Warren WWTP and Patriot Water Treatment	8/19/2011	6,816	Ex. 5 -- Deliberative Process Privilege
DI Water	8/29/2011	2,678	Ex. 5 -- Deliberative Process Privilege
Re: Invitation: Final Logistics for EPA Energy Extraction Inspections in Ohio Next Week (Sep 9 01:00 PM CDT in R1515B Maumee River Room/R5 Metcalfe - 15th Floor@EPA)	9/8/2011	19,535	Ex. 5 -- Deliberative Process Privilege
Logistics and Contactinfo for next week's Inspections in Ohio	9/9/2011	15,362	Ex. 5 -- Deliberative Process Privilege
Warren data	9/20/2011	138,245	Ex. 5 -- Deliberative Process Privilege
Re: Warren data	9/21/2011	5,726	Ex. 5 -- Deliberative Process Privilege
Fw: Patriot Water Treatment	9/21/2011	202,160	Ex. 5 -- Deliberative Process Privilege
Re: Invitation to Water Study Review from City of Warren and Patriot	9/26/2011	5,813	Ex. 5 -- Deliberative Process Privilege
Warren WWTP Brine Study and Legislator Overview Q and A-Webinar	10/4/2011	263,733	Ex. 5 -- Deliberative Process Privilege
Fracking/TDS: Invitation to Water Study Review from City of Warren and Patriot	10/4/2011	227,919	Ex. 5 -- Deliberative Process Privilege
Re: Parameter list	10/6/2011	4,051	Ex. 5 -- Deliberative Process Privilege
Re: 3560s for energy extraction inspections?	10/12/2011	3,634	Ex. 5 -- Deliberative Process Privilege
Brine unnderlying data from the Warren POTW Study	10/13/2011	1,914	Ex. 5 -- Deliberative Process Privilege
Re: Fw: Ohio HF	11/9/2011	9,173	Ex. 5 -- Deliberative Process Privilege

Re: Fw: Energy Extraction Initiative Evaluations/Inspections – DRAFT Memorandum on Data Elements Required for the Reporting of “No Further Action Required”	11/10/2011	10,533	Ex. 5 -- Deliberative Process Privilege
Re: Fw: Energy Extraction Initiative Evaluations/Inspections – DRAFT Memorandum on Data Elements Required for the Reporting of “No Further Action Required”	11/10/2011	11,713	Ex. 5 -- Deliberative Process Privilege
Re: Fw: Ohio HF	11/14/2011	30,716	Ex. 5 -- Deliberative Process Privilege
Fw: Ohio Hydraulic fracturing briefing document	11/14/2011	23,221	Ex. 5 -- Deliberative Process Privilege
new CRL data transmittal policy	11/15/2011	88,829	Ex. 5 -- Deliberative Process Privilege
Fw: Ohio Hydraulic fracturing briefing document	11/16/2011	25,036	Ex. 5 -- Deliberative Process Privilege
Re: Ohio HF	11/18/2011	5,447	Ex. 5 -- Deliberative Process Privilege
Re: Ohio HF	11/18/2011	5,280	Ex. 5 -- Deliberative Process Privilege
Fw: Ohio HF	11/18/2011	7,399	Ex. 5 -- Deliberative Process Privilege
Re: Fw: Ohio HF	11/18/2011	10,055	Ex. 5 -- Deliberative Process Privilege
Re: Fw: Ohio HF	11/18/2011	32,852	Ex. 5 -- Deliberative Process Privilege
Re: Fw: energy memo-LAST CHANCE	11/29/2011	6,998	Ex. 5 -- Deliberative Process Privilege
Re: HF briefing document	11/30/2011	4,031	Ex. 5 -- Deliberative Process Privilege
Re: HF briefing document	11/30/2011	65,494	Ex. 5 -- Deliberative Process Privilege
Re: HF briefing document	11/30/2011	13,236	Ex. 5 -- Deliberative Process Privilege
Re: HF briefing document	12/1/2011	377,817	Ex. 5 -- Deliberative Process Privilege
Re: HF briefing document	12/1/2011	17,414	Ex. 5 -- Deliberative Process Privilege
Re: HF briefing document	12/1/2011	379,931	Ex. 5 -- Deliberative Process Privilege
Re: HF briefing document	12/1/2011	19,132	Ex. 5 -- Deliberative Process Privilege
Re: HF briefing document	12/1/2011	381,303	Ex. 5 -- Deliberative Process Privilege
Re: Patriot and Warren	12/19/2011	4,424	Ex. 5 -- Deliberative Process Privilege
Re: Warren WWTP in Warren, Ohio (Permit No. OH0027987)	12/21/2011	11,217	Ex. 5 -- Deliberative Process Privilege
	12/21/2011	4,657	Ex. 5 -- Deliberative Process Privilege
Warren POTW Permit	12/27/2011	3,281,355	Ex. 5 -- Deliberative Process Privilege
Re: Inspection report	1/19/2012	3,620	Ex. 5 -- Deliberative Process Privilege
Re: EE INFO for Kathy-needed by feb 13: eepi sit/governance board mtg	2/9/2012	43,168	Ex. 5 -- Deliberative Process Privilege
Re: Warren WWTP and Patriot Water Treatment LLC Samples	2/14/2012	5,384	Ex. 5 -- Deliberative Process Privilege
Re: Fw: Patriot and Warren WWTP Radiological Analyses from NAREL	2/15/2012	10,052	Ex. 5 -- Deliberative Process Privilege
Re: Fw: Patriot and Warren WWTP Radiological Analyses from NAREL	2/15/2012	12,676	Ex. 5 -- Deliberative Process Privilege
Re: Data from Patriot	3/14/2012	5,538	Ex. 5 -- Deliberative Process Privilege
Re: Fw: Warren NPDES renewal - final documents	3/20/2012	4,457	Ex. 5 -- Deliberative Process Privilege
Re: Fw: Warren NPDES renewal - final documents	3/20/2012	6,157	Ex. 5 -- Deliberative Process Privilege
HOT ISSUE: Warren POTW-Due noon Wendensday	3/20/2012	17,778	Ex. 5 -- Deliberative Process Privilege
Re: HOT ISSUE: Warren POTW-Due noon Wendensday	3/21/2012	24,205	Ex. 5 -- Deliberative Process Privilege
Re: HOT ISSUE: Warren POTW-Due noon Wendensday	3/21/2012	7,581	Ex. 5 -- Deliberative Process Privilege
Re: HOT ISSUE: Warren POTW-Due noon Wendensday	3/21/2012	8,925	Ex. 5 -- Deliberative Process Privilege

Re: HOT ISSUE: Warren POTW-Due noon Wendensday	3/21/2012	10,283	Ex. 5 -- Deliberative Process Privilege
Fw: hot issue	3/21/2012	4,791	Ex. 5 -- Deliberative Process Privilege
RE: Ruling on Director's Motion and Appellants' Motion	3/28/2012	14,961	Ex. 5 -- Deliberative Process Privilege
RE: Ruling on Director's Motion and Appellants' Motion	3/28/2012	15,290	Ex. 5 -- Deliberative Process Privilege
Re: Patriot follow up	4/9/2012	4,681	Ex. 5 -- Deliberative Process Privilege
Fw: OC WA 8B TD2 - Revised Draft POTW and CWT Guidance Document Outline	4/17/2012	7,119	Ex. 5 -- Deliberative Process Privilege
Accepted: Draft Sampling Reports Patriot/Warren	4/19/2012	2,235	Ex. 5 -- Deliberative Process Privilege
Re: GAO (361347) - Subject: Hydrofracking -- follow up questions for Region 5	6/15/2012	11,285	Ex. 5 -- Deliberative Process Privilege
Re: GAO (361347) - Subject: Hydrofracking -- follow up questions for Region 5	6/15/2012	12,669	Ex. 5 -- Deliberative Process Privilege
Re: GAO (361347) - Subject: Hydrofracking -- follow up questions for Region 5	6/15/2012	14,169	Ex. 5 -- Deliberative Process Privilege
Re: GAO (361347) - Subject: Hydrofracking -- follow up questions for Region 5	6/15/2012	17,422	Ex. 5 -- Deliberative Process Privilege
Re: Fw: Please advise - Fw: New Attorney Request-City of Warren (Other Counsel)	7/27/2012	10,364	Ex. 5 -- Deliberative Process Privilege
Re: Fw: FOIA Request Warren Ohio WWTP	8/6/2012	5,982	Ex. 5 -- Deliberative Process Privilege
Patriot CWT Pictures	8/13/2012	1,970	Ex. 5 -- Deliberative Process Privilege
REVISED (use this version): Patriot Inspection Report (comments kindly requested by COB Wed. August 22)	8/20/2012	55,485	Ex. 5 -- Deliberative Process Privilege
Re: FOIA - Warren & Patriot	8/23/2012	10,167	Ex. 5 -- Deliberative Process Privilege
Re: REVISED (use this version): Patriot Inspection Report (comments kindly requested by COB Wed. August 22)	8/23/2012	6,090	Ex. 5 -- Deliberative Process Privilege
Patriot Inspection Report	8/23/2012	57,721	Ex. 5 -- Deliberative Process Privilege
Patriot/Warren surcharge question	8/27/2012	11,772	Ex. 5 -- Deliberative Process Privilege
Re: FOIA Warren & Patriot	8/28/2012	4,634	Ex. 5 -- Deliberative Process Privilege
Re: Fw: Question for Mark??	9/5/2012	7,436	Ex. 5 -- Deliberative Process Privilege
Fw: Warren/Patriot FOIA	9/5/2012	77,825	Ex. 5 -- Deliberative Process Privilege
UPLOAD G:\NPDES\Working Documents\_FOIAs\FY17\2017-007984 Warren POTW\O&G wastewater treatment in NJ and OH.msg		121,639	Ex. 5 -- Deliberative Process Privilege
UPLOAD G:\NPDES\Working Documents\_FOIAs\FY17\2017-007984 Warren POTW\RE UOG Workgroup Update - Final Pretreatment Standards for Unconventional Oil and Gas Extraction Wastewater Signed today.msg		284,875	Ex. 5 -- Deliberative Process Privilege
UPLOAD G:\NPDES\Working Documents\_FOIAs\FY17\2017-007984 Warren POTW\RE WW Sampling in Warren OH.msg		211,711	Ex. 5 -- Deliberative Process Privilege
UPLOAD G:\NPDES\Working Documents\_FOIAs\FY17\2017-007984 Warren POTW\UOG NPRM FAR Hedman briefing 7 7 14.docx		21,246	Ex. 5 -- Deliberative Process Privilege
UPLOAD G:\NPDES\Working Documents\_FOIAs\FY17\2017-007984 Warren POTW\RE WW Sampling in Warren OH ORD to R5.msg		126,795	Ex. 5 -- Deliberative Process Privilege Ex. 7 - Enforcement Undecided
Re: FOIA Request Warren WWTP	3/26/2012	10,758	Ex. 6 - Personal Privacy
FOIA Request Warren Ohio WWTP	7/26/2012	6,010	Ex. 6 - Personal Privacy

## Enclosure A List of files - Exempt Index FOIA EPA-R5-2017-007984.xlsx

Re: Fw: FOIA Request Warren Ohio WWTP & Patriot CWT	8/7/2012	6,924	Ex. 6 - Personal Privacy
Warren FOIA	9/6/2012	752,177	Ex. 6 - Personal Privacy
Re: FOIA Request Warren WWTP	10/2/2012	15,347	Ex. 6 - Personal Privacy
Re: Fw: FOIA Request Warren WWTP	10/2/2012	8,151	Ex. 6 - Personal Privacy
Warren POTW permit and PFD	9/9/2011	1,577,314	Ex. 7 - Enforcement
Fw: Weekly FOIA update	8/7/2012	31,796	Ex. 7(c) -- Unwarranted invasion of personal privacy
OH Fracking Wastes	6/2/2011	2,292	Ex. 7(e) -- Reveal investigatory techniques procedures or guidelines
Re: Gas Well Sites - Patriot/Warren Project	8/15/2011	6,029	Ex. 7(e) -- Reveal investigatory techniques procedures or guidelines
Re: Fw: Ohio HF	11/10/2011	10,283	Ex. 7(e) -- Reveal investigatory techniques procedures or guidelines